

ABSTRACT

The present invention relates to a linear reciprocating driving apparatus. It includes slipping module, slave engaging and reversing mechanics, flying wheel, driven sprocket, driving chain, and guide column. The slipping module is arranged on the framework of propulsion apparatus to be activated by rider. Also there is provided a slave engaging and reversing mechanics with compensation means. The propulsion apparatus can obtain satisfying results and improved efficiency. The invention can be applied to the vehicle, watercraft and exercising apparatus so as they were manually powered.